

Introduction

- Employment transportation systems funded by DOT's Job Access and Reverse Commute (JARC) program - services targeted to low-income workers to access job locations and employment-supportive destinations
- First study
 - Economic benefits study will report on this today
 - Partnership study
- Ongoing study:
 - Study of JARC and New Freedom data to be collected between now and end of Spring 2009
 - Human Services Transportation Plan

Studies of Employment Transportation

- Employment transportation systems funded by DOT's Job Access and Reverse Commute (JARC) program - services targeted to low-income workers to access job locations and employmentsupportive destinations.
- Economic Benefits Study: Travel behavior and labor market outcomes experienced by employment service users with the goal of estimating the economic benefits of the services; reported in Economic Benefits of Employment Transportation Services.
- Partnership and Coordination Study: Partnerships and coordination activities for employment transportation services; reported in Partnerships for the Job Access and Reverse Commute Program: A Multi-Site Study of the Institutional and Coordination Processes Behind Employment Transportation for Low-Income Workers.



Scope of Economic Benefits Study

- Who are the users of JARC-funded transit services, nationally?
- What are the travel behavior and labor market outcomes of these users?
- In terms of cost-effectiveness, how does JARC compare to other human services, workforce development and job creation programs?
- What are the economic benefits of the program to users, non-users and society?

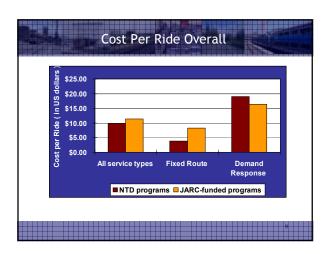
Primary Data Sources

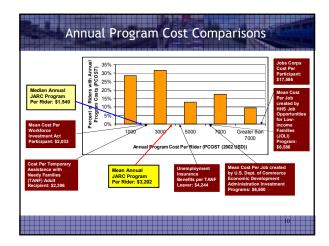
- JARC User Survey: An on-board survey of riders administered in the summer and fall of 2002 in 23 locations; questions on their sociodemographics, use of the service, information on the riders' prior and current travel patterns; prior and current employment and earnings information;
- Interviews of program managers and vehicle operators: Regarding the service and partnership aspects (during the same survey period);
- Cost and Operations Survey: Survey of financial questions relating to the service (e.g., total annual operating cost, FTA share and match source), operational characteristics (e.g., total annual ridership, route miles, route trip travel time for the routes, and hours of service).

Additional (Secondary) Data Sources Data Sources Cost-Effectiveness Analysis Census 2000 PUMS data on the 23 locations Census Transportation Planning Package 2000 National Transit Database 2002 FTA JARC Quarterly Reporting Database 2002 Cost-Benefit Analysis Consumer Expenditure Survey (CEX) 2002 National Longitudinal Survey of Youth (NLSY) FTA JARC Quarterly Reporting Database 2002 Census 2000 PUMS data on the 23 locations Census Transportation Planning Package Panel Study of Income Dynamics Site-specific public assistance, unemployment benefit and other data

Novelty of Study Approach

- Physical capital versus human capital valuation of return on investments - method here is a hybrid
- Valuation of lifecycle or longitudinal benefits to users from program investments
- Multi-site evaluation issue, strong site-to-site variations in outcomes - implications on generalizability of results
- Modification of traditional definition of benefits in transportation projects as changes to consumer surplus resulting from time savings
- "Correct" accounting of "opportunity costs"
- Inclusion of benefits or costs to non-users with standing





Benefit Measures and Cost Benefit Analysis

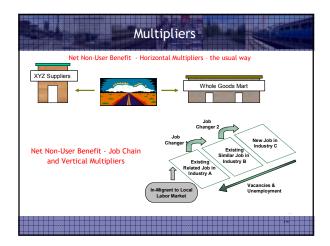
- Base Year Incremental Net Benefit: for users, non-users and society
- Potential User Worklife Benefit Index forecasts of lifecycle economic benefits to users using dynamic microsimulation model

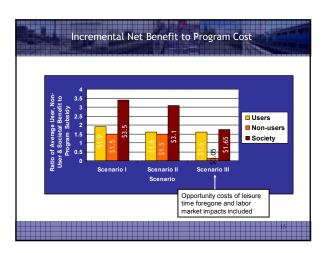
User Subgroups Subgroup Users New worker in the labor force Existing workers in new job locations Existing workers in same job locations Non-workers in school or training Non-workers looking for jobs Discretionary riders

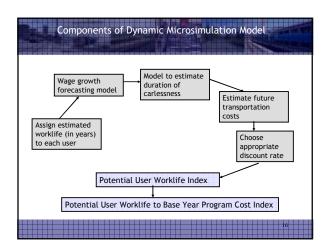
"Before" and "after" design: $\Delta NUB_t = (\sum_{t=0}^{I} UB_{t-\delta,t}) - (\sum_{t=0}^{I} UC_{t,t} - \sum_{t=0}^{I} UC_{t-\delta,t})$

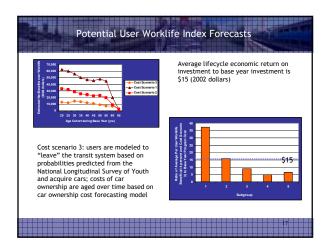
- Link each user to "statistically similar" user(s) in Current Population Survey March Work Supplement 2002 & local data on income tax rates, fringe benefits, EITC, sales tax, gas tax, transit service fares etc
- Quantify opportunity costs of "leisure time" and monetized value of generalized cost of travel

Who are the Non-Users?					
Sub- group	Non-users	Types of Impacts			
1	General Public	Tax revenues generated, transfer payments for alternative uses, subsidy to program			
2	Regional Public	Societal costs of private transportation averted with trips diverted to employment transportation costs			
3	Local Labor Markets				
- Qua		ssistance payment, unemployment benefits			
	, ,	nerated and subsidy to program private automobile driving (if applicable)			
- Loc	al labor marke	et impacts using job chain approach			









Overarching Lessons The most sustainable policies relating to employment transportation for disadvantaged individuals are likely to be those: That build upon broader transportation, social services and tax policies Have a multi-modal emphasis that enhance demand management polices Leverages local land-use, affordable housing and economic development strategies.

Recommendations

- Scope of programs limited needs to be expanded set-aside from major highway and transit programs?
- Special focus on services for disadvantaged populations should continue but combine programs (with those for persons with disabilities, seniors) and increase coordination efforts
- Lifecycle transportation and mobility credit system
- Employer-involvement should increase
- Need federal focus on accessibility needs of children and young adults towards long-term employment outcomes
- Performance measures need longitudinal measures
- Information networks should be improved